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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,182	11/26/2003	Sadayuki Watanabe	FUJI:282	8297
7590 12/15/2004			EXAMINER	
ROSSI & ASSOCIATES P.O. Box 826			RICKMAN, HOLLY C	
Ashburn, VA 20146-0826			ART UNIT	PAPER NUMBER
			1773	
			DATE MAILED: 12/15/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		4			
	Application No.	Applicant(s)			
Office Action Summan	10/723,182	WATANABE ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAIL INC DATE CALL	Holly Rickman	1773			
The MAILING DATE of this communicate Period for Reply	ion appears on the cover sheet wi	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA:  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica:  - If the period for reply specified above is less than thirty (30) da:  - If NO period for reply is specified above, the maximum statutor:  - Failure to reply within the set or extended period for reply will, the Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION.  'CFR 1.136(a). In no event, however, may a relation.  ys, a reply within the statutory minimum of thirty process will apply and will expire SIX (6) MON by statute, cause the application to become AR	eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communication.			
Status					
1) Responsive to communication(s) filed or	n 01 December 2004				
• 1	☐ This action is non-final.				
3) Since this application is in condition for a		ers, prosecution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-13 is/are pending in the appli	cation	•			
4a) Of the above claim(s) <u>13</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.		*			
6)⊠ Claim(s) 1-12 is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction	and/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Ex	aminer.				
10)⊠ The drawing(s) filed on <u>26 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by t	the Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for fo a)⊠ All b)□ Some * c)□ None of:	oreign priority under 35 U.S.C. §	119(a)-(d) or (f).			
1. Certified copies of the priority docu					
2. Certified copies of the priority docu	ıments have been received in Ap	plication No			
3. Copies of the certified copies of the	e priority documents have been re	eceived in this National Stage			
application from the International B					
* See the attached detailed Office action for	a list of the certified copies not re	eceived.			
•					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Sur	mmary (PTO-413)			
2)  Notice of Draftsperson's Patent Drawing Review (PTO-94 3)  Information Disclosure Statement(s) (PTO-1449 or PTO/5		Mail Date  property from the common of the common			
Paper No(s)/Mail Date <u>11/26/03</u> .	6) Other:				
S. Patent and Trademark Office TOL -326 (Rev. 1-04)					

Application/Control Number: 10/723,182

Art Unit: 1773

#### **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election of Group I, claims 1-12, in the reply filed on 12/1/04 is acknowledged. Because applicant did not distinctly and specifically point out any errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai et al. (machine translation of JP 2002-312925) in view of Kawada et al. (US 2004/0110034).

Sakai et al. disclose a magnetic recording medium having a substrate, a Ta seed layer, a NiFeCr alloy orientation control layer, a Mn alloy antiferromagnetic layer, a CoFe switching field control layer, a Co amorphous soft magnetic layer, a magnetic recording layer, a protective layer and a liquid lubricant thereon (see paragraphs 10, 12, 14 and Drawings 1-2). The reference is silent with respect to the use of a NiFe orientation control layer containing one of B, Nb, and Si.

Art Unit: 1773

Kawada et al. teach the equivalence of NiFeCr and NiFeNbB and NiFeSi for use as an orientation control layer overlying a Ta seedlayer (see paragraph 11).

It would have been obvious to one of ordinary skill in the art at the time of invention to substitute a NiFeNbB alloy or a NiFeSi alloy for the NiFeCr orientation control layer taught by Sakai et al. in view of the art recognized equivalence of these materials.

### Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Chen et al. (US 2004/0247945) is cited as art of interest.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Holly Rickman whose telephone number is (571) 272-1514. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/723,182

Art Unit: 1773

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Holly Rickman Primary Examiner Art Unit 1773

November 9, 2004